

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Original) A method for caching in a tracing framework, comprising:
 - firing a probe associated with a thread;
 - evaluating a first predicate of the probe;
 - caching the first predicate in a predicate cache associated with the thread, based on the evaluating of the first predicate and cacheability of the first predicate; and
 - transferring control to the thread, based on the caching.
2. (Currently Amended) The method according to claim 1, wherein the evaluating comprises determining a ~~boolean~~ Boolean value of the first predicate.
3. (Currently Amended) The method according to claim 2, wherein the ~~boolean~~ Boolean value is true.
4. (Original) The method according to claim 3, further comprising:
 - executing an action of the probe.
5. (Currently Amended) The method according to claim 2, wherein the ~~boolean~~ Boolean value is false.
6. (Original) The method according to claim 5, further comprising:
 - determining whether the first predicate is cacheable.
7. (Currently Amended) The method according to claim ~~[[4]]~~ 6, wherein cacheable is the first predicate referencing an immutable variable.
8. (Currently Amended) The method according to claim ~~[[4]]~~ 6, wherein cacheable is the first predicate referencing a thread-specific variable.
9. (Original) The method according to claim 6, further comprising:
 - identifying the first predicate using a predicate cache identifier;
 - storing the predicate cache identifier with the probe as a probe cache identifier; and
 - storing the predicate cache identifier in the predicate cache.

10. (Original) The method according to claim 1, wherein the transferring occurs if the first predicate is cached in the predicate cache.
11. (Original) The method according to claim 9, wherein the probe further encounters a second predicate of the probe.
12. (Original) The method according to claim 11, further comprising:
evaluating the second predicate of the probe.
13. (Currently Amended) The method according to claim 12, wherein the evaluating comprises determining a ~~boolean~~ Boolean value of the second predicate.
14. (Currently Amended) The method according to claim 13, wherein the ~~boolean~~ Boolean value is true.
15. (Original) The method according to claim 14, further comprising:
executing an action of the probe.
16. (Currently Amended) The method according to claim 13, wherein the ~~boolean~~ Boolean value is false.
17. (Original) The method according to claim 16, further comprising:
determining whether the second predicate is cacheable.
18. (Currently Amended) The method according to claim 17, further comprising:
identifying the second predicate using the predicate cache identifier, if the first predicate and the second predicate are the same.
19. (Original) The method according to claim 18, wherein cacheable is the first predicate referencing an immutable variable and the first predicate and the second predicate having the same identifier.
20. (Original) The method according to claim 18, wherein cacheable is the first predicate referencing a thread-specific variable and the first predicate and the second predicate having the same identifier.

21. (Original) The method according to claim 1, further comprising:
determining whether the first predicate is cached; and
determining whether the predicate cache is valid.
22. (Currently Amended) The method according to claim 21, wherein the determining whether the predicate is cached comprises comparing whether ~~[[the]]~~ a probe cache identifier and ~~[[the]]~~ a predicate cache identifier stored in the predicate cache are equivalent.
23. (Currently Amended) The method according to claim 21, wherein determining whether the predicate cache ~~identifier~~ is valid comprises comparing whether ~~[[the]]~~ a probe cache identifier and ~~[[the]]~~ a predicate cache identifier stored in the predicate cache are non-zero.
24. (Original) The method according to claim 1, further comprising:
invalidating the predicate cache.
25. (Original) The method according to claim 24, wherein the invalidating comprises setting the predicate cache to zero.
26. (Original) The method according to claim 24, wherein the invalidating is a result of a thread-specific variable being stored.
27. (Original) The method according to claim 1, further comprising:
setting the predicate cache to zero initially.
28. (Currently Amended) A computer system for caching in a tracing framework comprising:
a processor;
a memory;
a storage device; and
software instructions stored in memory for enabling the computer system to:
fire a probe associated with a thread;
evaluate a ~~[[first]]~~ predicate of the probe;
cache the ~~[[first]]~~ predicate in a predicate cache associated with the thread, based
on the evaluating of the ~~[[first]]~~ predicate and cacheability of the ~~[[first]]~~
predicate; and
transfer control to the thread, based on the caching.

AMENDMENTS TO THE DRAWINGS

Please amend Figure 1 as shown in the enclosed replacement sheet. Figure 1 has been amended to include an instrumented program (116). No new matter is added by this amendment, as paragraph [0014] of the specification as filed clearly states that the probes (112 and 114) are in an instrumented program (116). Applicant respectfully submits that the replacement sheet is formal.